



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
WASHINGTON, DC 20350-2000

IN REPLY REFER TO

OPNAVINST 3501.155A
OP-375
24 MAY 1988

OPNAV INSTRUCTION 3501.155A

From: Chief of Naval Operations

Subj: PROJECTED OPERATIONAL ENVIRONMENT (POE) AND REQUIRED
OPERATIONAL CAPABILITIES (ROC) FOR THE TAO 187 CLASS OF
OILERS WITH MSC MANNING

Ref: (a) OPNAVINST C3501.2G (NOTAL)

Encl: (1) Projected Operational Environment for the TAO 187
Class of Ships
(2) Required Operational Capabilities for the TAO 187
Class of Ships


1. Purpose. To issue the revised Projected Operational Environment (POE) and the Required Operational Capabilities (ROC) for the TAO 187 Class of Oilers with MSC manning.

2. Cancellation. OPNAVINST 3501.155.

3. Discussion. Enclosures (1) and (2) have been prepared per reference (a). The ROC and POE provide the necessary detail to describe the mission areas and operational capabilities for which this class of oilers was designed and is organized. Together they establish requirements requisite for developing civilian manpower requirements and the ship manpower document for the military detachment.

4. Information. The Chief of Naval Operations has approved the TAO 187 class ROC and POE, and initial distribution has been made to commands concerned.

5. Action. Fleet Commanders in Chief are requested to periodically review enclosures (1) and (2) and recommend to the Chief of Naval Operations (Attn: OP-375) changes as may be appropriate when capability of the classes is significantly altered by introduction or deletion of systems.


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PROJECTED OPERATIONAL ENVIRONMENT
FOR THE TAO 187 CLASS OF OILERS WITH MSC MANNING

1. At sea in wartime.
2. Conduct underway replenishment in support of operating forces by simultaneously providing POL from five stations (two starboard and three port); fleet freight, mail, personnel and other items from two stations (one starboard and one port) for periods normally not to exceed thirty-two hours per week. UNREP hours are considered to commence with "first line over" and terminate with "last line clear". All other workload tasks such as rigging, prestaging of cargo, safety briefings, etc., will be counted under Utility Tasks and Evolutions (UT&E).
3. Conduct vertical replenishment in support of operating forces by providing fleet freight, personnel, mail and other items from one helicopter platform with helicopters from other units for periods normally not to exceed 20 hours per week. This includes the time from the setting of flight quarters to securing from flight quarters.
4. Capable of performing other functions which are not required to be accomplished simultaneously. UNREP/VERTREP functions may require simultaneous accomplishment.
5. Capable of performing all maintenance for which ship's company is assigned responsibility.
6. Capable of supporting embarked underway replenishment group staff subject to constraints imposed by existing installed shipboards communications equipment.
7. Primary and secondary mission areas are:

<u>AAW</u>	<u>ASU</u>	<u>ASW</u>	<u>CCC</u>	<u>FSO</u>	<u>INT</u>	<u>LOG</u>	<u>MIW</u>	<u>MOB</u>	<u>NCO</u>
<u>S</u>	<u>S</u>	<u>S</u>	<u>P</u>	<u>S</u>	<u>S</u>	<u>P</u>	<u>S</u>	<u>P</u>	<u>S</u>

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REQUIRED OPERATIONAL CAPABILITIES
FOR THE TAO 187 CLASS OF OILERS
WITH MSC MANNING

	<u>I</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF/W</u>
a. <u>ANTI-AIR WARFARE (AAW)</u>					
AAW 6 - Detect, identify and track air targets.					
AAW 6.2 Recognize by sight friendly and enemy aircraft which may be encountered in expected operating areas.	F	F	F		
b. <u>ANTISUPFACE SHIP WARFARE (ASU)</u>					
ASU 4 - Detect, identify, localize and track surface ship targets.					
ASU 4.1 Detect, localize and track surface contacts with radar.	F	F	F		
ASU 4.4 Detect and track surface contacts visually.	F	F	F		
ASU 4.7 Identify surface contacts.	F	F	F		
ASU 6 - Disengage, evade and avoid surface attack.					
ASU 6.2 Employ evasion techniques.	F		F		
c. <u>ANTISUBMARINE WARFARE (ASW)</u>					
ASW 10 - Disengage, evade and avoid submarine attack by employing torpedo countermeasures and evasion techniques.	F		F		
d. <u>COMMAND AND CONTROL AND COMMUNICATIONS (CCC)</u>					
CCC 2 - Coordinate and control the operations of the task organization or functional					

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	<u>I</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF/W</u>
force to carry out assigned missions.					
CCC 2.6 Function as force or sector OTC/CWC (or alternate) to coordinate and control Battle Group/Task Force operations.		F			
CCC 2.8 Function as on-scene commander for a SAR operation.	F		F		
CCC 3 - Provide own unit's command and control functions.					
CCC 3.3 Carry out emergency destruction of classified matter and equipment rapidly and efficiently. R(P), IV(P), IP(P) Augmented by off-watch personnel.	F	P	P	P	A
CCC 3.4 Employ IFF/SIF including secure IFF Mode 4. (Transponder only)	F	F	F	F	
CCC 4 - Maintain NTDS or data link capability.					
CCC 4.7 Receive Link 14 information.	F	F	F		
CCC 6 - Provide communications for own unit.					
CCC 6.1 Provide tactical voice communications.	F	F	F		
CCC 6.2 Maintain visual communications. IV(P), IP(P) Augmented by off-watch personnel. Work one contact and	F	F	P	P	A

		<u>I</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF/W</u>
	maintain watch simultaneously.					
CCC 6.3	Maintain multichannel cryptographically covered teletype receive circuits. IP(P) Augmented by off-watch personnel.	F	F	F	P	A
CCC 6.4	Maintain uncovered RATT/CW communications. IP(P) Augmented by off-watch personnel.	F	F	F	P	A
CCC 6.5	Maintain full duplex cryptographically covered HF teletype circuits. IP(P) Augmented by off-watch personnel.	F	F	F	P	A
CCC 6.6	Process message traffic. IP(P) Augmented by off-watch personnel.	F	F	F	P	A
CCC 6.9	Maintain multichannel cryptographically covered teletype send and receive circuits. R(P), IV(P), IP(P) Augmented by off-watch personnel.	F	P	P	P	A
CCC 6.10	Maintain voice/teletype/computer data cryptographically covered satellite communication circuits. IP(P) Augmented by off-watch personnel.	F	F	F	P	A
CCC 6.12	Maintain internal communications systems.	F	F	F	F	

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CCC 6.18 Provide tactical, secure voice communications.	F	F	F	F	
CCC 7 - Implement Operations Security (OPSEC) measures and conduct military deception actions.					
CCC 7.2 Execute OPSEC measures.	F	F	F	F	
CCC 7.4 Execute Navy operational deception actions using tactics, operations, exercises or physical means.	F				
CCC 9 - Relay naval communications.					
CCC 9.1 Relay visual communications.	F	F	P	P	A
IV(P) Augmented with off-watch personnel.					
IP(P) Capability reduced due personnel ashore					
CCC 9.3 Relay electronic communications.	F	F	F	P	A
IP(P) Capability reduced due personnel ashore.					
<u>NOTE:</u> CCC2 through CCC9 pertain to the MILDET.					
e. <u>FLEET SUPPORT OPERATIONS (FSO)</u>					
FSO 5 - Conduct towing/search/salvage/rescue operations.					
FSO 5.3 Conduct rescue operations.	P		P		F
I(P), IV(P) Augmented by special detail.					
FSO 6 - Support/conduct Search And Rescue (SAR) operations in a combat/noncombat environment.					

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	<u>I</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF/W</u>
FSO 6.4 Recover man overboard. I(P), R(P), IV(P), IP(P) Augmented by special detail.	P	P	P	P	E
FSO 6.6 Conduct search and rescue operations (including opera- tions involving submarine disasters/rescues). I(P), IV(P) MSC oilers have limited capability to conduct rescue operations.	P		P		
FSO 6.7 Conduct general surveil- lance. R(P) Capability limited by restricted maneuvering.	F	P	F		
FSO 6.9 Report situation assessment.	F		F		
FSO 6.10 Coordinate SAR operations.	F		F		
FSO 9 - Provide routine health care.					
FSO 9.1 Conduct daily sick call.			F	F	
FSO 9.4 Conduct ward care.	F	F	F	F	
FSO 9.5 Conduct sanitation and safety inspections and provide preventive medicine instruction.			F	F	
FSO 9.6 Conduct appropriate industrial hygiene/ environment health monitoring and occupa- tional safety and health training.			F	F	
FSO 9.10 Conduct on site emergency medical treatment during hazardous evolutions	F	F	F	F	

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	<u>I</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF/W</u>
including flight quarters, underway replenishment/ refueling, and amphibious assault boat operations.					
FSO 10 - Provide first aid assistance.					
FSO 10.1 Identify, equip and maintain appropriate first aid spaces.			F	F	
FSO 10.2 Train assigned personnel in first aid, self and buddy aid procedures.			F	F	
FSO 20 - Provide fleet training services.					
FSO 20.1 Act as target for submarines.	F	F	F		
FSO 20.6 Act as delivery or receiving ship for underway replenishment training.		F	P		L
IV(P) Augmented by special detail.					
FSO 20.11 Provide cargo handling training to assigned personnel and designated augmentees.		F		F	
f. <u>INTELLIGENCE (INT)</u>					
INT 1 - Support/conduct intelligence collection.					
INT 1.5 Support/conduct radar intelligence information collection.	F		P	P	E

	<u>I</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF/W</u>
IV(P), IP(P) Augment with off-watch person- nel.					
INT 1.11 Maintain radar scope photography capability.	F	P	P	P	E
R(P), IV(P), IP(P) Augment with off-watch personnel.					
INT 2 - Provide intelligence.					
INT 2.1 Maintain intelligence summary plots on air, surface, and subsurface activities.	F	P	P	P	E
R(P), IV(P), IP(P) May require augmentation by off-watch personnel.					
INT 2.2 Evaluate and dissemi- nate intelligence information.	F	F	F	F	
INT 3 - Conduct surveillance and reconnaissance.					
INT 3.2 Conduct overt surveil- lance and reconnaissance operations.	F		F		
INT 4 - Provide the capability to conduct ocean surveillance operations against targets of interest.					
INT 4.1 Provide the capability to detect and locate targets of interest.	F		F		
INT 4.2 Provide the capability to classify and identify targets of interest.	F		F		

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	<u>I</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF/W</u>
INT 4.3 Provide the capability to track targets of interest.	F		F		
g. <u>LOGISTICS (LOG)</u>					
LOG 1 - Conduct underway replenishment.					
LOG 1.3 Transfer cargo underway.			F		
LOG 1.4 Transfer cargo underway by STREAM.			F		
LOG 1.7 Transfer DFM underway.			F		
LOG 1.8 Transfer DFM underway by STREAM.			F		
LOG 1.9 Transfer jet fuel underway.			F		
LOG 1.10 Transfer jet fuel underway by STREAM.			F		
LOG 1.11 Provide vertical replenishment underway.			P		
R(P) Using other unit Helo.					
LOG 1.12 Replenish other units underway with limited fuel, provisions, munitions, potable and feed water.			F		
LOG 2 - Transfer/receive cargo and personnel.					
LOG 2.2 Provide facilities and personnel for material, mail, and passenger handling.		F	F	F	
LOG 2.3 Act as a transient personnel receiving station.		F		F	

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	<u>I</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF/W</u>
LOG 2.4 Transfer and receive personnel by helo. I(P), IV(P), IP(P) Augmented by special detail.	P	F	P	P	E
LOG 2.5 Transfer personnel and light freight by highline.		F			
LOG 3 - Provide sealift for cargo and personnel.					
LOG 3.1 Provide stowage and berthing spaces for equipment and personnel during transit.	F	F	F	F	
LOG 3.2 Provide small boat services for transfer of personnel, cargo, weapons, provisions and supplies.					F
LOG 4 - Support ships and aircraft in supplies, ordnance and other services.					
LOG 4.1 Provide fuel and lubricating oil to another unit. IP(P) Augmented by special detail.	F			P	E
LOG 4.4 Provide another unit with: (1) Steam (2) Electrical power (3) Bottled Oxygen (5) Fresh water IP(P) Augmented by off-watch personnel.	F F			P P P	A A A
h. <u>MINE WARFARE (MIW)</u>					
MIW 6 - Conduct magnetic silencing (degaussing, deperming, etc.)					

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MIW 6.7 Maintain magnetic signature limits.	F	F	F	F	
i. <u>MOBILITY (MOB)</u>					
MOB 1 - Steam to designed capability and in the most fuel efficient manner.					
MOB 1.1 Steam at full power.	F	F	F		
MOB 3 - Prevent and control damage.					
MOB 3.1 Control fire, flooding, electrical, structural, propulsion and hull casualties.	F	P	P	P	A
R(P), IV(P) Watch station personnel and sounding/security watch provide surveillance.					
IP(P) Duty damage control party.					
MOB 3.2 Counter and control NBC contaminants/agents.	F	P	P	P	
R(P), IV(P) Reduced capability only until Condition I is set.					
IP(P) Reduced capability due to personnel ashore					
MOB 3.3 Maintain security against unfriendly acts.				F	A
<u>NOTE:</u> Limited number of small arms aboard.					
MOB 3.5 Provide damage control security/surveillance.	F	F	F	F	

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	<u>I</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF/W</u>
MOB 3.8 Provide emergency breathing devices per ship's allowance.	F	F	F	F	
MOB 5 - Maneuver in formation.	F	F	P		E
IV(P) Augmented by special detail.					
MOB 7 - Perform seamanship, airman-ship and navigation tasks.					
MOB 7.1 Navigate under all conditions of geographic location, weather, and visibility.	F	P	P		E
R(P), IV(P) Augmented by special detail when conditions require.					
MOB 7.2 Conduct precision anchoring.	P		P		E
I(P) May require securing special detail from Condition I watch stations.					
IV(P) Augmented by special detail.					
MOB 7.3 Get underway, moor, anchor, and sortie with duty section in a safe manner.				P	A
IP(P) Will require recall of personnel from shore leave/liberty.					
MOB 7.6 Abandon/scuttle ship rapidly.	F	P	P		E
R(P), IV(P) Augmented by special detail.					
MOB 7.7 Provide lifeboat/raft capacity per unit's allowance.	F	F	F	F	

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MOB 7.8 Tow or be towed (Towing engine not required). I(P), IV(P) Augmented by special detail.	P		P		E
MOB 7.9 Operate day and night and under all weather conditions.	F	F	F		
MOB 7.10 Conduct undetected transits.	F	F	F		
MOB 10 - Replenish at sea.					
MOB 10.1 Receive vertical replenishment. IV(P), IP(P) Augmented by special detail.		F	P	P	E
MOB 10.2 Receive fuel while underway (alongside method).		F			
MOB 10.3 Receive munitions and provisions while underway.		F			
MOB 10.4 Receive potable and/or feed water while underway. IV(P) Augmented by special detail.		F	P		E
MOB 10.5 Receive COD/VOD aircraft. R(P), IV(P), IP(P) Augmented by special detail.	F	P	P	P	E
MOB 12 - Maintain the health and well-being of the crew.					
MOB 12.1 Ensure all phases of food service operations are conducted consistent with	P	F	F	F	

	<u>I</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF/W</u>
approved sanitary procedures and standards.					
I(P) Battle messing. May require securing personnel from condition I stations.					
MOB 12.2 Ensure the operation of the potable water system in a manner consistent with approved sanitary procedures and standards.	F	F	F	F	
MOB 12.3 Monitor to ensure the protection of personnel from overexposure to hazardous levels of radiation, temperature, noise, vibration, and toxic substances in accordance with current instructions.	F	F	F	F	
j. <u>NONCOMBAT OPERATIONS (NCO)</u>					
NCO 2 - Provide administrative and supply support for own unit.					
NCO 2.1 Provide supply support services.	P	F	F	P	
I(P) Emergency breakout only.					
IP(P) Capability reduced due to personnel ashore.					
NCO 2.2 Provide clerical services.			F	P	
IP(P) Capability reduced due to personnel ashore.					
NCO 2.3 Provide disbursing services.			P	P	
IV(P), IP(P) Ship provides check cashing facilities only. Paychecks are mailed					

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to the ship and distributed by the purser.					
NCO 2.5 Provide messing facilities. I(P) Battle Messing.	P	F	F	F	
NCO 2.6 Provide ships service facilities. IP(P) Capability reduced due to personnel ashore.			F	P	
NCO 2.7 Provide inventory and custodial services. IP(P) Capability reduced due to personnel ashore.			F	P	
NCO 2.8 Provide personnel for living space maintenance.			F	F	
NCO 3 - Provide upkeep and mainte- nance of own unit.					
NCO 3.1 Provide organizational level maintenance.			F	F	
NCO 3.2 Repair own unit's equip- ment. I(P), R(P), IV(P), IP(P) Some equipment requires shoreside assistance.	P	P	P	P	
NCO 5 - Conduct meteorological, hydrographic and/or oceano- graphic collection operations or surveys.					
NCO 5.1 Collect and disseminate meteorological information. I(P), R(P), IV(P), IP(P) Limited to synoptic reports.	P	P	P	P	

	<u>I</u>	<u>R</u>	<u>IV</u>	<u>IP</u>	<u>OFF/W</u>
NCO 5.2 Collect and disseminate hydrographic information.	P	P	P	P	
I(P), R(P), IV(P), IP(P) Limited to synoptic reports.					
NCO 10 - Provide emergency/disaster assistance.					
NCO 10.1 Provide emergency flooding/fire fighting assistance to another unit.	P	P	P	P	E
I(P) May require securing personnel from Condition I stations.					
R(P), IV(P) Augmented by special detail.					
IP(P) Capability reduced due personnel ashore.					
NCO 10.4 Provide disaster assistance and evacuation.			P	P	E
IV(P) Augmented by special detail.					
IP(P) Capability reduced due personnel ashore.					